SA-VA10

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model

• REAR SPEAKER

• FRONT SPEAKER SYSTEM

SPECIFICATIONS

This speaker system incorporates the Dolby Pro Logic Surround System.*

* Manufactured under license from Dolby Laboratories Licensing Corporation. DOLBY , the double-D symbol DD and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

AUDIO POWER SPECIFICATIONS

(US model)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
For center and front full range speakers: With 8 ohm loads, both channels driven, from 70 Hz – 20 kHz; rated 15 watts per channel minimum RMS power, with no more than 0.9 % toral harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Continuous RMS power output	total 100 W
Centre tweeter	20 W (8 ohms at 10 kHz, 9 % THD)
Front full range/ Centre woofer	20 W + 20 W (8 ohms at 1 kHz, 9 % THD)
Super woofer	20 W (8 ohms at 40 Hz, 9 % THD)
Rear	20 W (8 ohms at 1 kHz, 9 % THD)
Input sensitivity/ Impedance	450 mV, 50 kilohms
Output sensitivity/ Impedance	TO TV: 450 mV, 1 kilohm External Centre: 20 W (at 8 ohms, 1 kHz, 9 % THD), 8–16 ohms Rear: Accepts only supplied rear speakers SS-SR151 R-ch: Accepts only SA-VA10 R-ch speaker
Tone control	
Front/Centre	Bass : ±10 dB at 100 Hz Treble: ±10 dB at 10 kHz
Speaker section	
Type	
Front speaker	Bass reflex type
DBR super woofer	SAW type
Rear speaker	Bass reflex type

— Continued on next page —

HOME THEATER ACTIVE SPEAKER SYSTEM

SONY

MICROFILM

Speaker unit

Front speaker system	Center tweeter: 5 cm cone type (2) Front full range / Center woofer: 10 cm cone type (2) Super woofer: 13 cm cone type (1)
Rear speaker	8 cm cone type (2)

General

Power requirement	US, Canadian, E1 model:
Front speakers	120 V AC, 60 Hz AEP, UK, German, E2 model: 220 - 230 V AC, 50 Hz
Power consumption	US, Canadian: 70 W
Front speakers	Except US, Canadian: 75 W
Dimensions	Front left: Approx. 190 x 565 x 280 mm (w/h/d) ($7\,^1/_2$ x $22\,^1/_4$ x 11 inches) Front right: Approx. 190 x 565 x 265 mm (w/h/d) ($7\,^1/_2$ x $22\,^1/_4$ x $10\,^7/_{16}$ inches) Rear: Approx. 110 x 160 x 140 mm (w/h/d) ($4\,^5/_{16}$ x $6\,^5/_{16}$ x $5\,^1/_2$ inches)
Mass	Front (L): 9.0 kg (19 lb 13 oz) Front (R): 8.0 kg (17 lb 10 oz) Rear: 700 g/pc (1 lb 9 oz)
Supplied accessories	Rear speaker SS-SR151 (2) Front L/R speaker connecting cord, 3.5 m (1) Rear speaker connecting cord, 10 m (2) Audio connecting cord, 1.5 m (1) Remote Commander RM-J10 (1) Sony batteries SUM-3 (NS) (2) Anti-vibration pads (8)

Design and specifications are subject to change without notice.

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SERVICE NOTE

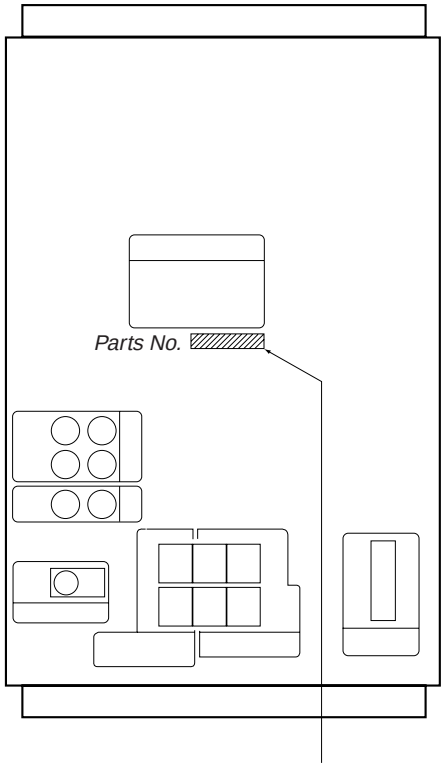
[FL ALL LIGHT UP MODE]

While pressing the MASTER VOL+ button, press the POWER button.

[AUTO POWER SAVE MECHANISM]

A part circuit on this will stop to economize in power if it has no signal after more than three minutes.
If a sound is input again, the normal circuit will operated.

MODEL IDENTIFICATION
— BACK PANEL —



4-982-965-0☐: US, E1 model
4-982-965-1☐: Canadian model
4-982-965-2☐: AEP, E2, German model
4-982-965-3☐: UK model
4-982-965-4☐: Australian model

- Abbreviation
  E1 : Central and South America model
  E2 : Singapore, Malaysia model

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth Ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

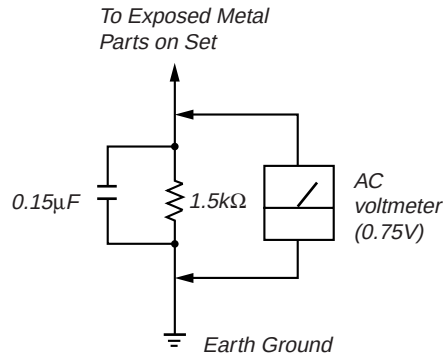


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

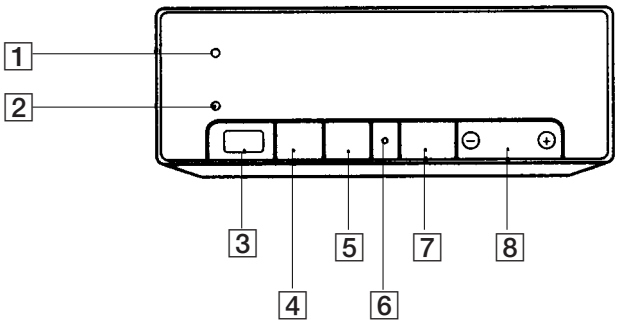
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
GENERAL

LOCATION OF CONTROLS

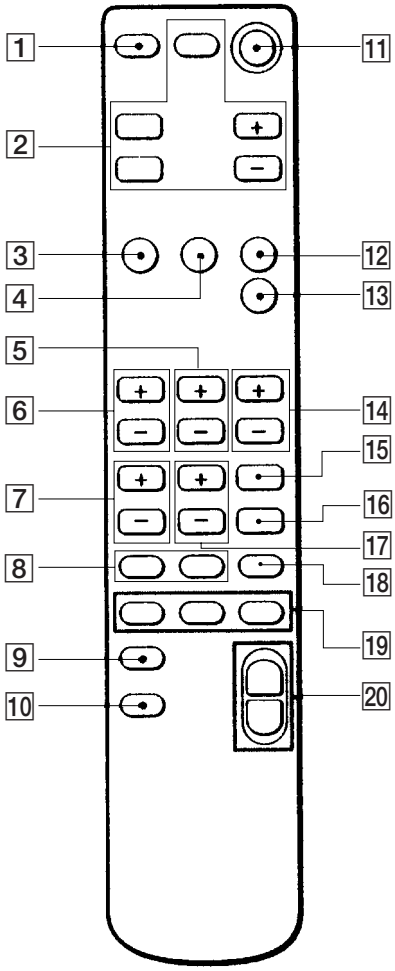
Front panel



1 STANDBY indicator (red)
2 POWER indicator (red/green)
3 POWER button
4 INPUT button
5 SURROUND button
6 CENTER MODE button
7 S. WOOFER button
8 MASTER VOL buttons

This section is extracted from instruction manual.

Remote



1 MUTING button
2 Operate a Sony TV buttons
3 DOLBY SUR button
4 HALL button
5 REAR +/– buttons
6 CENTER +/– buttons
7 BASS +/– buttons
8 BALANCE L/R buttons
9 INPUT 1 button
10 INPUT 2 button
11 POWER button
12 GAME button
13 SUR OFF button
14 S. WOOFER +/– buttons
15 TEST TONE button
16 DELAY button
17 TREBLE +/– button
18 RESET button
19 SUPER WOOFER MODE buttons (1, 2, OFF)
20 MASTER VOL buttons

Power turns on and off automatically

The speakers will turn on automatically when a sound signal is input and turn off when you've finished watching a program and the sound signal goes out. So you don't have to bother using the power switch every time you use the system.

The speakers turn on and off automatically (Auto power on/off function)

Three minutes after the sound signal goes out (when you turn off the TV, or the currently playing video/laserdisc ends), the speakers turn off automatically and the POWER indicator turns red.
The speakers turn themselves back on the next time you turn on the TV or start playback from the VCR and the POWER indicator turns green.

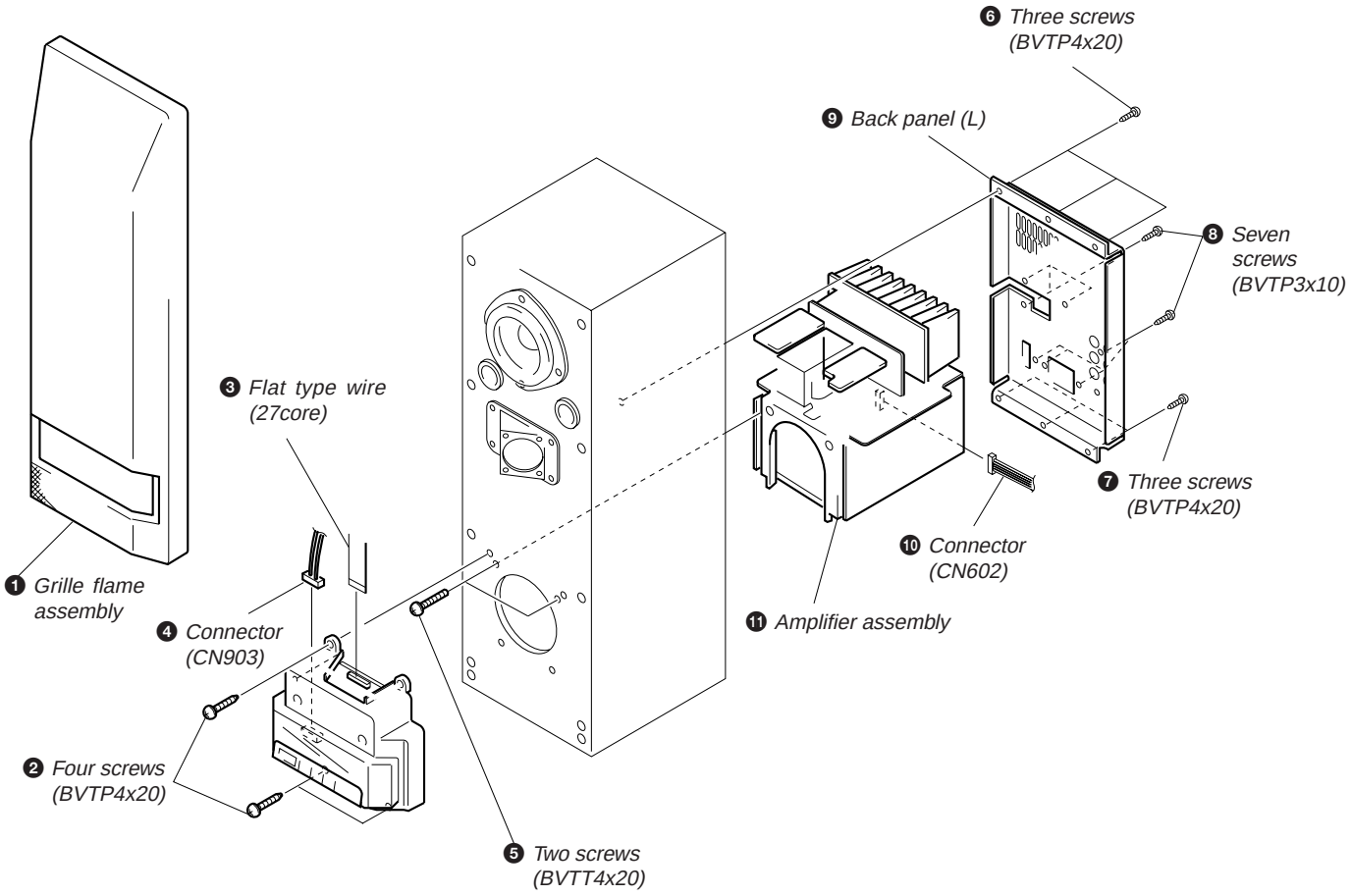
If you press POWER on the remote when the speakers are on

The speakers enter standby mode (the red standby indicator lights up) and the auto power on/off function will not operate. You have to press POWER on the remote again to turn on the speakers.

SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

2-1. AMPLIFIER ASSEMBLY



SECTION 3
DIAGRAMS

3-1. IC PIN FUNCTION

• IC501 System Control (μPD78042FGF-016-3B9)

Pin No.	Pin Name	I/O	Function
1 to 7	7G to 1G	O	FL grid control
8	VDD	—	Power supply terminal (+5V)
9	POWER RY	O	Power relay control
10	FUNC 1/2	O	Input select control (L: input 2 H: input 1)
11	PLO/DELAY-CLK	O	Prologic/Delay IC (IC103) serial control
12	PLO/DELAY-CE	O	
13	PLO/DELAY-DATA	O	
14	FRONT MUT	O	Mute control (“L”=Mute)
15	CENTER EXT MUT	O	
16	S/W MUT	O	
17	$\overline{\text{RESET}}$	I	System reset
18	REAR MUT	O	Mute control (“L”=Mute)
19	CENTER MUT	O	
20	AVSS	—	Ground for A/D convertor
21	CENTER EXT/INT	O	Center speaker switching control
22	—	—	Not used (Connected to ground)
23	MODE	—	
24	VOL SCL	O	Audio processor IC (IC203, 204) serial control
25	—	—	Not used (Connected to ground)
26	SW1	I	Audio signal detection (L: Sound input H: No sound input)
27	KEY 1	I	Key input (analog)
28	KEY 0	I	
29	AVDD	—	Analog power supply for A/D convertor
30	AVREF	—	Reference voltage for A/D convertor (Connected to +5V)
31	STOP	I	Voltage detect (AC off)
32	XT2	—	Not used (Open)
33	VSS	—	Ground
34	X1	I	Oscillation crystal (5 MHz) for main system clock
35	X2	O	
36	S/W BOOST	O	Sub woofer boost control (H: off L: on)
37 to 40	S/W C1 to S/W C4	O	Super woofer level control
41	CENTER EXT-SW	I	Connecting detection of external center output (L: Connecting signal input H: No connecting signal input)

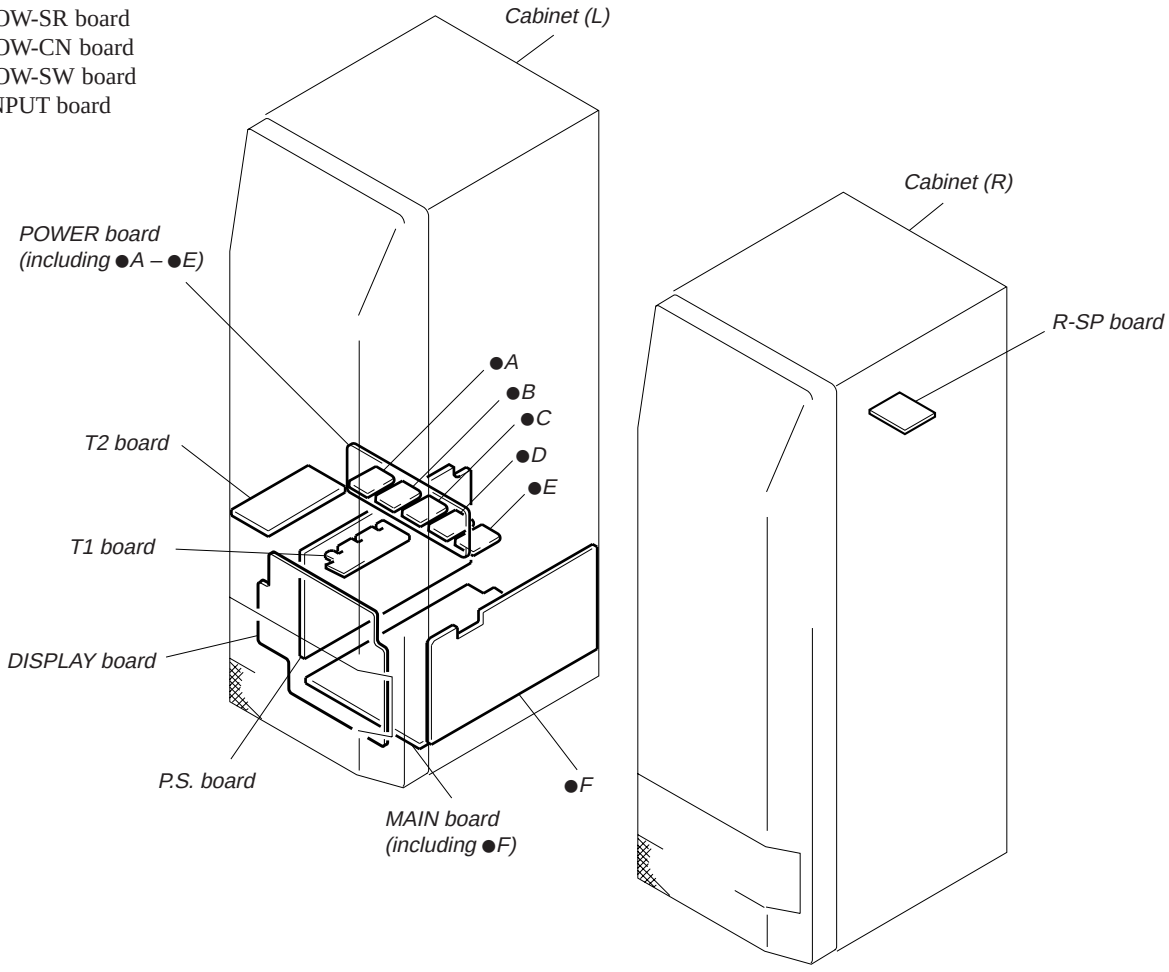
• Abbreviation
FL : Fluorescent indicator tube

Pin No.	Pin Name	I/O	Function
42, 43	—	—	Not used (Connected to ground)
44	SIRCS	I	Remote control signal input
45	VOL SDA-2	O	Audio processor IC (IC203, 204) serial control
46	VOL SDA-1	O	
47	—	—	Not used (Connected to ground)
48	IC	—	Internal connecting (Connected to ground)
49	STANDBY LED	O	LED control (L: Lighting)
50	OPRATE LED	O	
51	READY LED	O	
52	VDD	—	Power supply (+5V)
53 to 70	S24 to S27	O	FL segment control
71	VLOAD	—	Power supply (–25V) for indication control
72 to 77	S6 to S1	O	FL segment control
78 to 80	10G to 8G	O	FL grid control

3-2. CIRCUIT BOARDS LOCATION

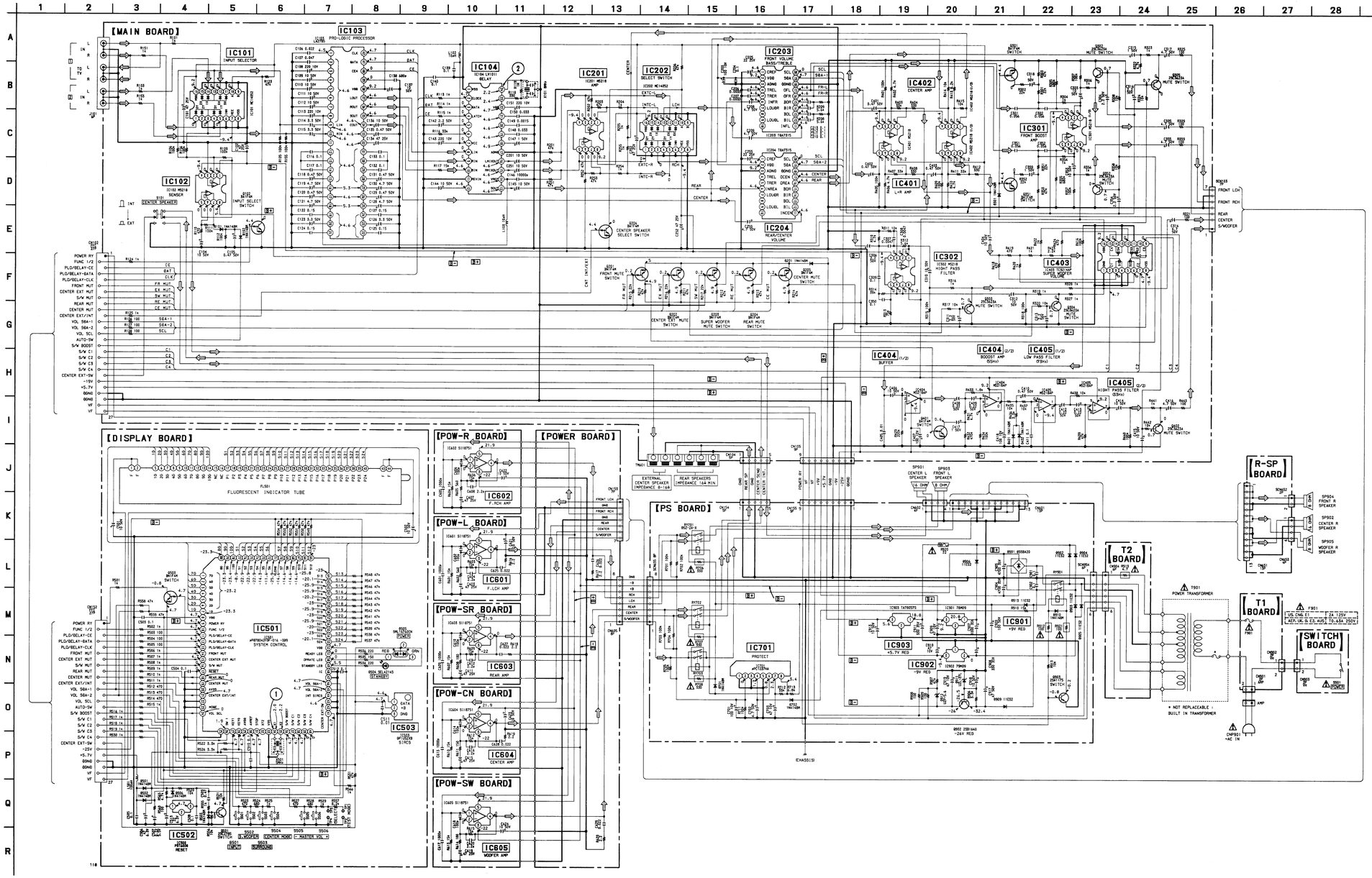
NOTE

●A : POW-R board
●B : POW-L board
●C : POW-SR board
●D : POW-CN board
●E : POW-SW board
●F : INPUT board

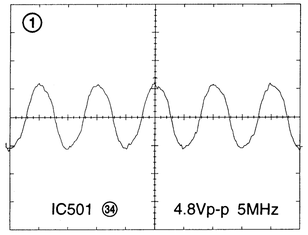


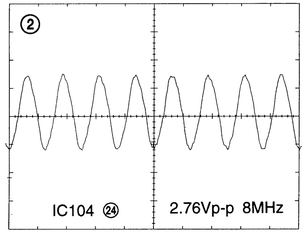
3-3. SCHEMATIC DIAGRAM

- See page 6 for IC Pin Function. (IC501)
- See page 17 for IC Block Diagrams.



• Waveforms





Note:

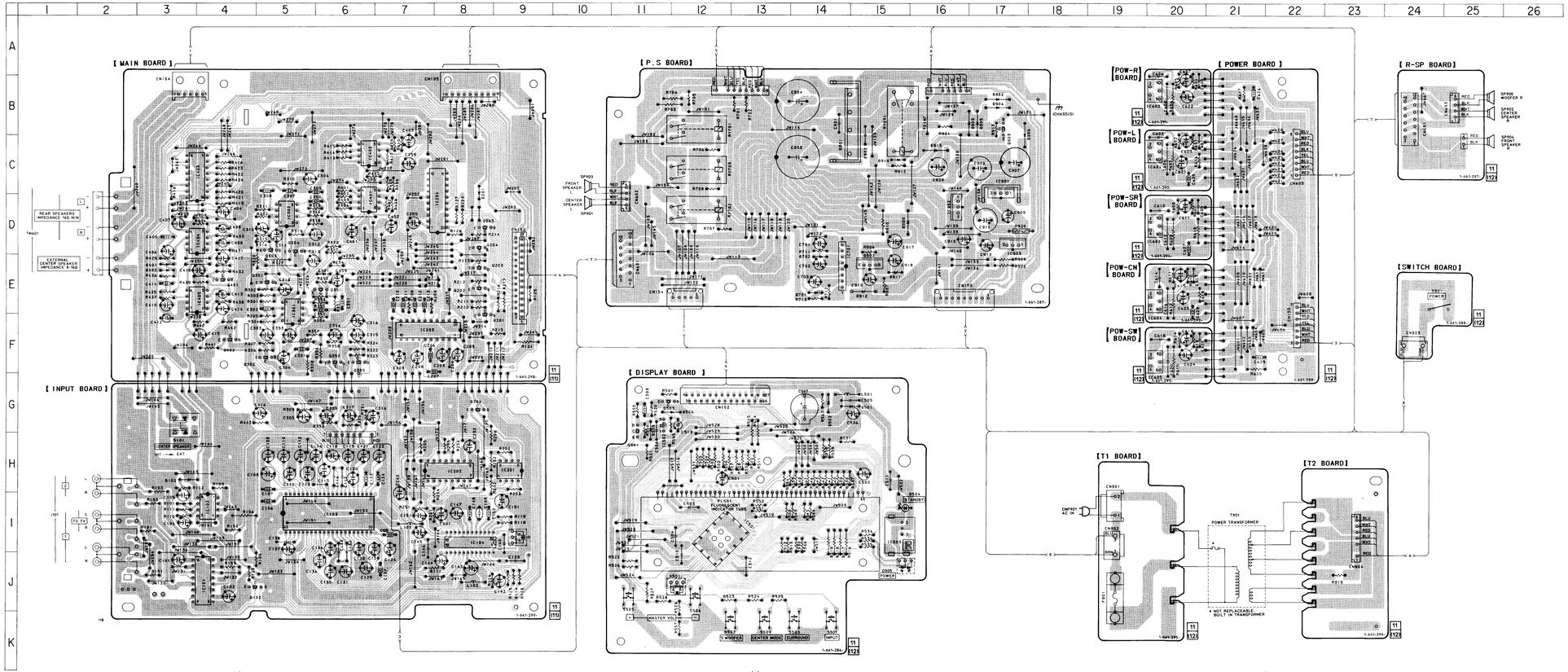
- All capacitors are in µF unless otherwise noted. pF:µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- : fusible resistor.
- : panel designation.

Note:	Note:
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- B− : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions. no mark : LINE
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path. ⇨ : LINE
- Abbreviation
  CND : Canadian model.
  G : German model.
  E1 : Central and South America model.
  E2 : Singapore, Malaysia model.
  AUS : Australian model.

3-4. PRINTRD WIRING BOARD

• See page 7 for Circuit Boards Location.



— 13 —

— 14 —

— 15 —

• **Semiconductor Location**

Ref. No.	Location
D101	I-3
D102	H-3
D201	D-8
D301	E-6
D401	E-3
D402	E-3
D501	G-15
D502	G-14
D503	G-11
D504	I-15
D505	J-15
D506	G-12
D701	E-14
D702	E-14
D901	B-14
D902	B-17
D903	B-16
D904	B-17
D905	B-17
D906	C-17
D909	D-15
D910	C-15
D911	E-15
D912	E-15
D913	C-16
IC101	J-4
IC102	I-4
IC103	I-6
IC104	I-8
IC201	H-9
IC202	H-8
IC203	F-7
IC204	D-8
IC301	E-5
IC302	D-5
IC401	D-6
IC402	C-6
IC403	C-4
IC404	D-4
IC405	E-4
IC501	I-12
IC502	G-11
IC503	I-15
IC601	C-20
IC602	B-20
IC603	D-20
IC604	E-20
IC605	F-20
IC701	E-14
IC901	C-17
IC902	D-16
IC903	D-17
Q102	J-4
Q201	F-8
Q202	E-8
Q203	E-8
Q204	D-8
Q205	D-8
Q206	G-8
Q301	E-5
Q302	F-5
Q303	D-5
Q304	D-5
Q305	F-6
Q351	E-6
Q352	F-6
Q401	E-4
Q402	F-4
Q501	H-11
Q503	G-11
Q902	E-15
Q903	B-17

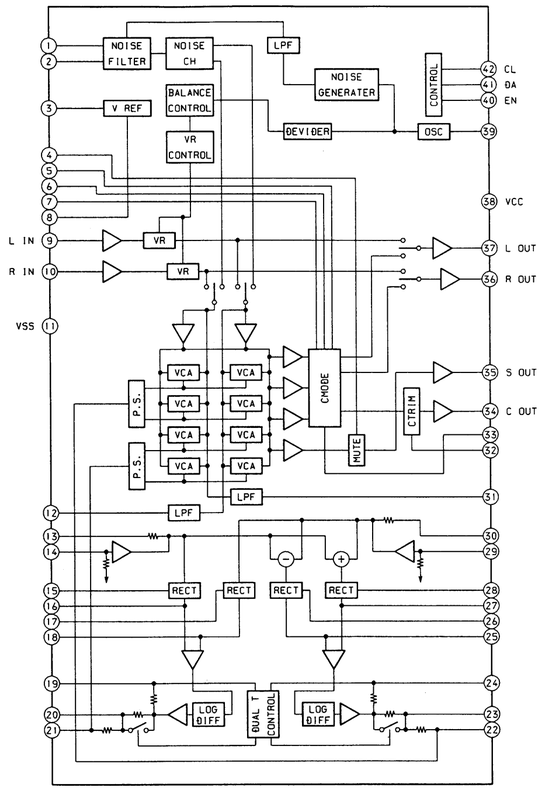
Note:

- ⊖—— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- △ : Internal component.
- ▒ : Pattern from the side which enable seeing.

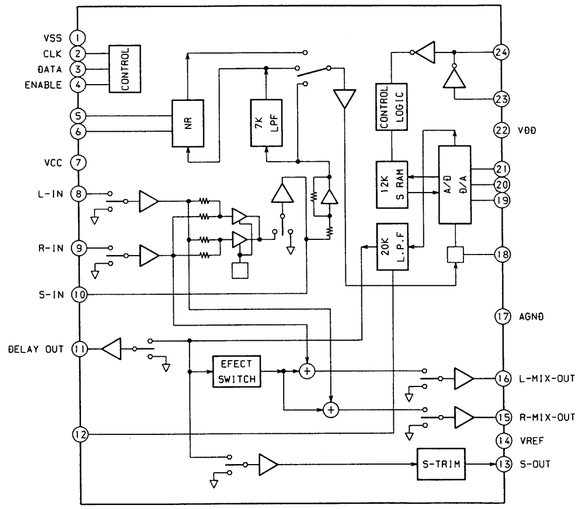
— 16 —

3-5. IC BLOCK DIAGRAMS

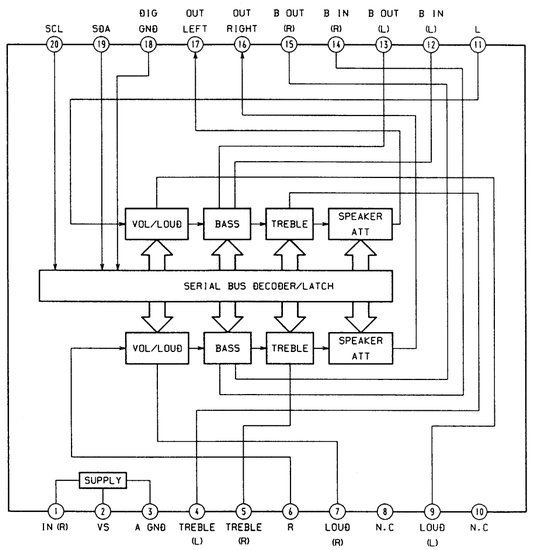
IC103 LA2785



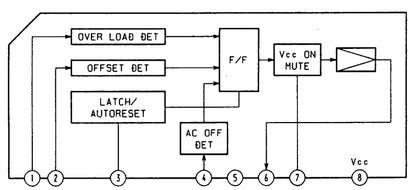
IC104 LV1011



IC203, 204 TDA7315



IC701 μPC1237HA



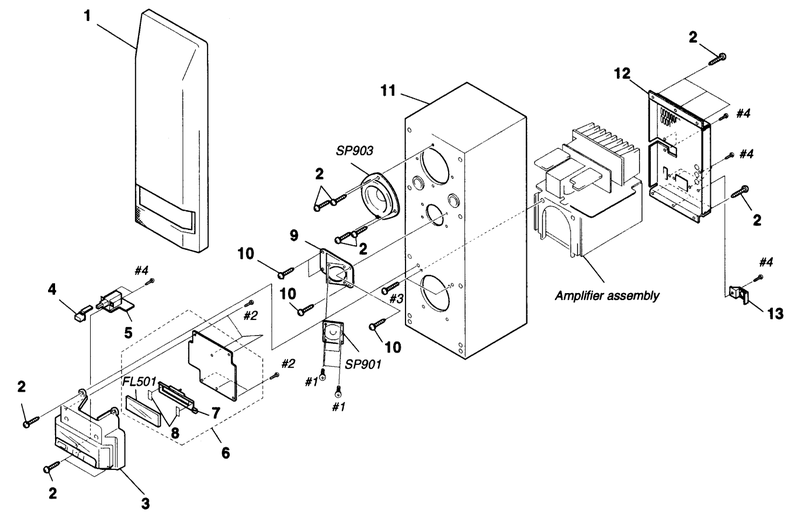
SECTION 4
EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  CND : Canadian model
  G : Germang model
  E1 : Central and South America model
  E2 : Singapore, Malaysia model
  AUS : Australian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

4-1. CABINET (L) ASSEMBLY



Ref. No.	Part No.	Description	Remark
1	X-4947-365-1	FRAME ASSY, GRILLE	
2	4-914-430-11	SCREW (4X20), TAPPING	
3	X-4947-363-1	PANEL (L) ASSY, DISPLAY	
4	4-982-969-01	BUTTON, POWER	
* 5	1-661-288-11	SWITCH BOARD	
* 6	A-4390-780-A	DISPLAY BOARD, COMPLETE	
* 7	4-982-971-01	HOLDER, FL TUBE	
* 8	4-921-941-01	CUSHION (FL)	
* 9	4-957-215-01	FRAME, TWEETER	
10	4-949-145-01	SCREW (3.5X18), TAPPING	
* 11	A-4384-226-A	CABINET (L) ASSY, SPEAKER	
* 12	4-982-965-01	PANEL (L), BACK (US,E1)	
* 12	4-982-965-11	PANEL (L), BACK (CND)	
* 12	4-982-965-21	PANEL (L), BACK (AEP,G,E2)	
* 12	4-982-965-31	PANEL (L), BACK (UK)	
* 12	4-982-965-41	PANEL (L), BACK (AUS)	
* 13	4-976-741-01	COVER, BUTTON	
FL501	1-517-546-11	INDICATOR TUBE, FLUORESCENT	
SP901	1-504-874-11	SPEAKER (5CM)(Center tweeter)	
SP903	1-504-875-11	SPEAKER (10CM)(Full range)	

SECTION 4
EXPLODED VIEWS

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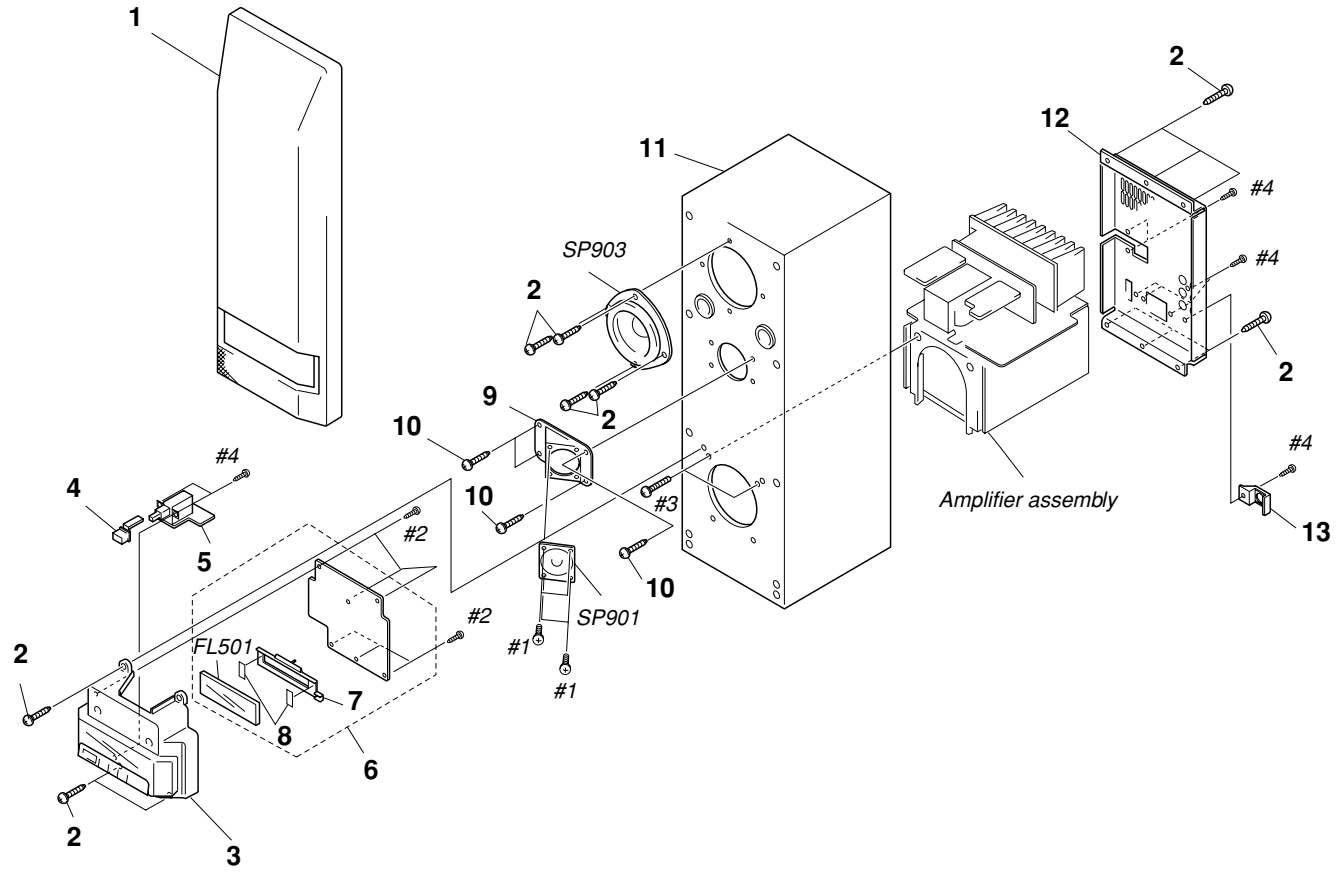
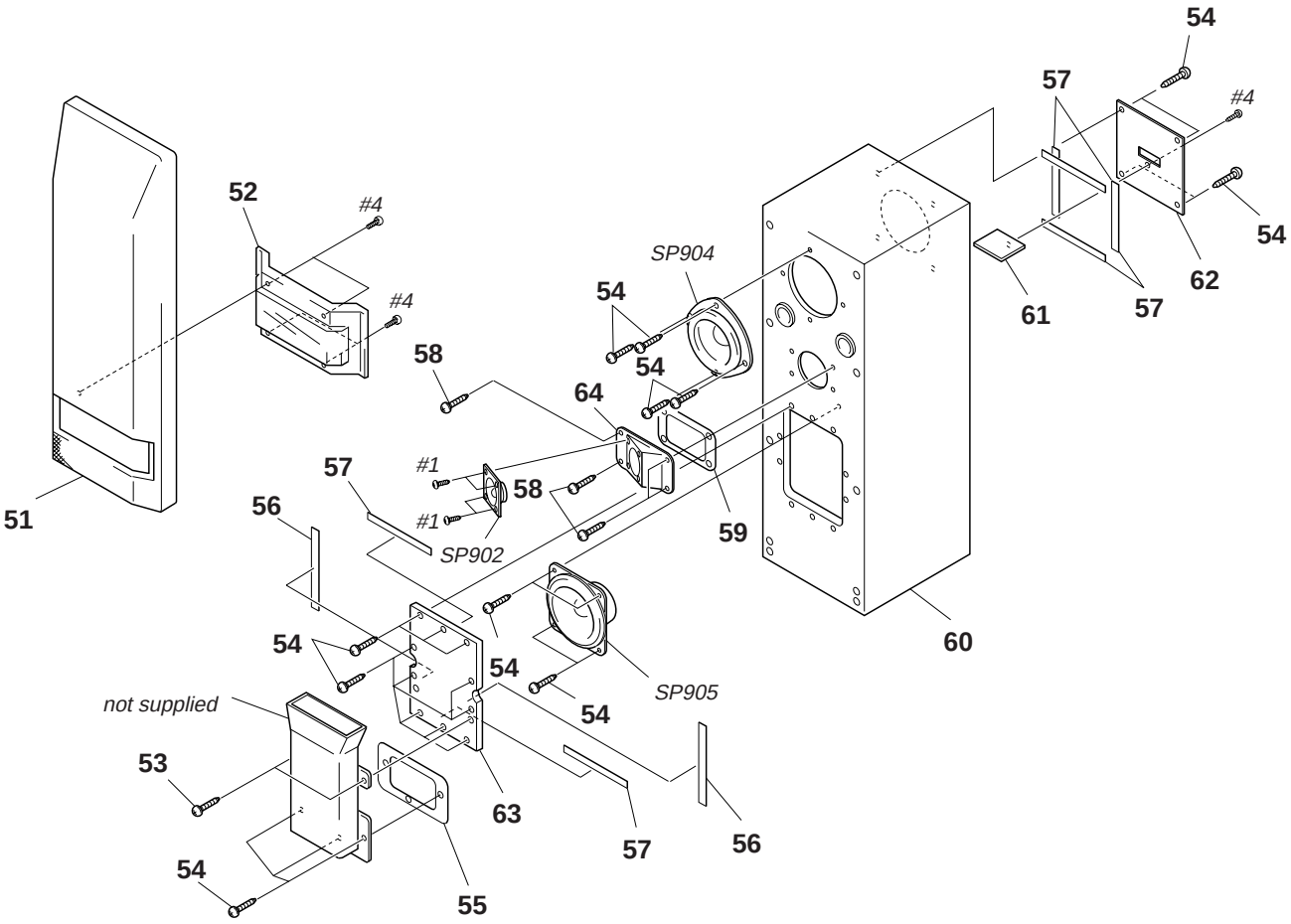
Ne les remplacer que par une piéce portant le numéro spécifié.

4-1. CABINET (L) ASSEMBLY



Ref. No.	Part No.	Description	Remark
1	X-4947-365-1	FRAME ASSY, GRILLE	
2	4-914-430-11	SCREW (4X20), TAPPING	
3	X-4947-363-1	PANEL (L) ASSY, DISPLAY	
4	4-982-969-01	BUTTON, POWER	
* 5	1-661-288-11	SWITCH BOARD	
* 6	A-4390-780-A	DISPLAY BOARD, COMPLETE	
* 7	4-982-971-01	HOLDER, FL TUBE	
* 8	4-921-941-01	CUSHION (FL)	
* 9	4-957-215-01	FRAME, TWEETER	
10	4-949-145-01	SCREW (3.5X18), TAPPING	
* 11	A-4384-226-A	CABINET (L) ASSY, SPEAKER	
* 12	4-982-965-01	PANEL (L), BACK (US,E1)	
* 12	4-982-965-11	PANEL (L), BACK (CND)	
* 12	4-982-965-21	PANEL (L), BACK (AEP,G,E2)	
* 12	4-982-965-31	PANEL (L), BACK (UK)	
* 12	4-982-965-41	PANEL (L), BACK (AUS)	
* 13	4-976-741-01	COVER, BUTTON	
FL501	1-517-546-11	INDICATOR TUBE, FLUORESCENT	
SP901	1-504-874-11	SPEAKER (5CM)(Center tweeter)	
SP903	1-504-875-11	SPEAKER (10CM)(Full range)	

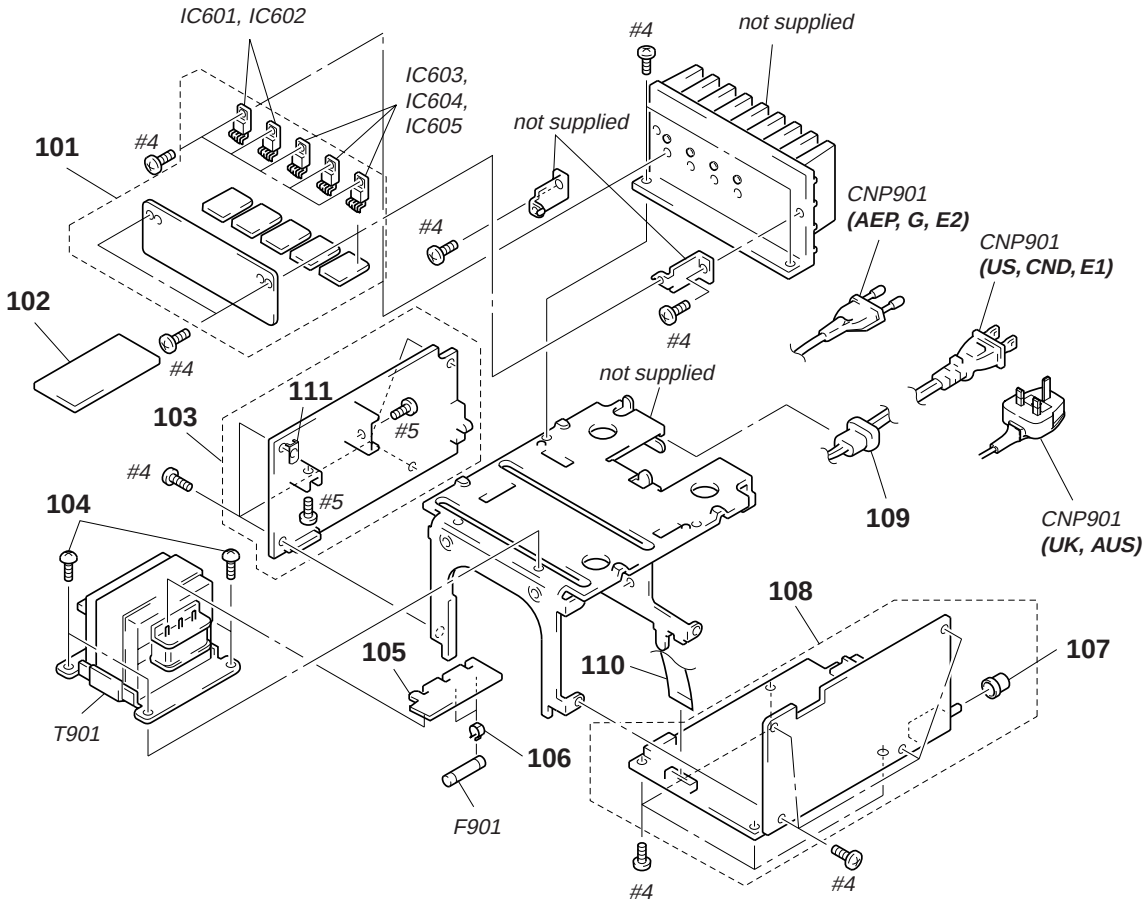
4-2. CABINET (R) ASSEMBLY



Ref. No.	Part No.	Description	Remark
51	X-4947-365-1	FRAME ASSY, GRILLE	
52	X-4947-364-1	PANEL (R) ASSY, DISPLAY	
53	4-914-518-11	SCREW (4X14), (+) (B) TAPPING	
54	4-914-430-11	SCREW (4X20), TAPPING	
55	4-982-975-01	PACKING (DUCT SW)	
56	4-982-976-01	PACKING (COVER)	
57	4-982-973-01	PACKING (REAR PLATE)	
58	4-949-145-01	SCREW (3.5X18), TAPPING	
59	4-982-974-01	PACKING (TW)	

Ref. No.	Part No.	Description	Remark
* 60	A-4384-229-A	CABINET (R) ASSY, SPEAKER	
* 61	1-661-297-11	R-SP BOARD	
* 62	4-982-966-01	PANEL (R), BACK	
* 63	4-986-426-01	COVER (SW)	
* 64	4-957-215-01	FRAME, TWEETER	
SP902	1-504-874-11	SPEAKER (5CM)(Center tweeter)	
SP904	1-504-875-11	SPEAKER (10CM)(Full range)	
SP905	1-505-338-11	SPEAKER (13CM)(S. woofer)	

4-3. AMPLIFIER SECTION



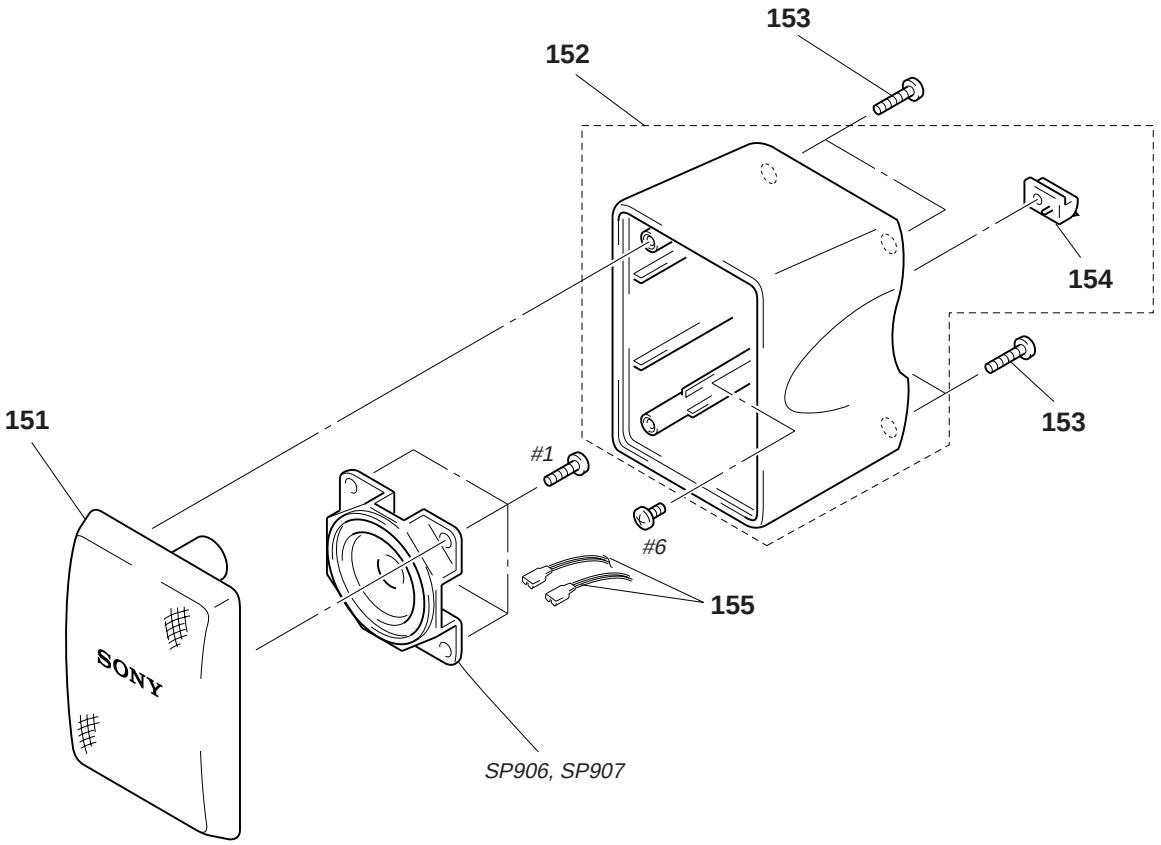
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
* 101	A-4390-783-A	POWER BOARD, COMPLETE	
* 102	1-661-296-11	T2 BOARD	
* 103	A-4390-782-A	P.S. BOARD, COMPLETE (G,US,CND,UK,E1,AUS)	
* 103	A-4390-787-A	P.S. BOARD, COMPLETE (AEP,E2)	
104	4-381-962-11	SCREW +BVTT 4X8 (S)	
* 105	1-661-295-11	T1 BOARD	
106	1-533-293-11	FUSE HOLDER	
* 107	4-975-298-01	BUTTON (PUSH)	
* 108	A-4390-779-A	MAIN BOARD, COMPLETE	
* 109	3-703-244-00	BUSHING (2104), CORD	

Ref. No.	Part No.	Description	Remark
110	1-765-348-11	WIRE (FLAT TYPE) (27 CORE)	
111	1-537-738-21	TERMINAL BOARD, GROUND	
⚠CNP901	1-575-042-21	CORD, POWER (US,CND,E1)	
⚠CNP901	1-575-651-21	CORD, POWER (AEP,G,E2)	
⚠CNP901	1-751-529-11	CORD, POWER (UK,AUS)	
⚠F901	1-532-500-51	FUSE, TIME-LAG (0.63A 250V)(G,AEP,UK,E2,AUS)	
⚠F901	1-533-296-11	FUSE, GLASS CYLINDRICAL(DIA.5)(2A 125V) (US,CND,E1)	
⚠T901	1-429-676-11	TRANSFORMER, POWER (US,CND,E1)	
⚠T901	1-429-677-11	TRANSFORMER, POWER (G,AEP,UK,E2,AUS)	

4-4. REAR SPEAKER SECTION (SS-SR151)



Ref. No.	Part No.	Description	Remark
151	X-4947-156-1	PANEL ASSY, FRONT	
* 152	X-4947-157-1	CABINET ASSY, SPEAKER	
153	4-929-125-01	SCREW (M4X16), TAPPING	
154	1-537-775-11	TERMINAL BOARD	
155	1-765-663-11	CORD	
SP906	1-504-877-11	SPEAKER (8CM)(Rear)	
SP907	1-504-877-11	SPEAKER (8CM)(Rear)	

SECTION 5
ELECTRICAL PARTS LIST

DISPLAY

Note:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: µ , for example:
  uA...: µ A..., uPA...: µ PA..., uPB...: µ PB..., uPC...: µ PC..., uPD...: µ PD...
- CAPACITORS
  uF : µ F
- COILS
  uH : µ H
- Abbreviation
  CND : Canadian model
  G : German model
  E1 : Central and South America model
  E2 : Singapore, Malaysia model
  AUS : Australian model

Ref. No.	Part No.	Description			Remark
*	A-4390-780-A	DISPLAY BOARD, COMPLETE			
		**********			
*	4-921-941-01	CUSHION (FL)			
*	4-982-971-01	HOLDER, FL TUBE			
		< CAPACITOR >			
C501	1-124-261-00	ELECT	10uF	20%	50V
C502	1-124-261-00	ELECT	10uF	20%	50V
C503	1-164-159-21	CERAMIC	0.1uF		50V
C504	1-164-159-21	CERAMIC	0.1uF		50V
C505	1-164-159-21	CERAMIC	0.1uF		50V
C506	1-126-154-11	ELECT	47uF	20%	6.3V
C507	1-104-905-11	CAPACITOR	0.22F		5.5V
C508	1-164-159-21	CERAMIC	0.1uF		50V
C509	1-136-173-00	FILM	0.47uF	5%	50V
C510	1-164-159-21	CERAMIC	0.1uF		50V
C511	1-162-306-11	CERAMIC	0.01uF	30%	16V
C512	1-164-159-21	CERAMIC	0.1uF		50V
C513	1-124-638-11	ELECT	22uF	20%	6.3V
		< CONNECTOR >			
* CN152	1-568-869-11	SOCKET, CONNECTOR 27P			
		< DIODE >			
D501	8-719-987-63	DIODE 1N4148M			
D502	8-719-987-63	DIODE 1N4148M			
D503	8-719-987-63	DIODE 1N4148M			
D504	8-719-304-31	DIODE SEL4214S (STANDBY)			
D505	8-719-045-89	DIODE SML16760CN (POWER)			
D506	8-719-987-63	DIODE 1N4148M			
		< FLUORESCENT INDICATOR >			
FL501	1-517-546-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC501	8-759-421-73	IC uPD78042FGF-016-3B9			
IC502	8-759-165-81	IC PST600D-T			
IC503	8-749-920-83	IC GP1U52XB			
		< COIL >			
L501	1-410-521-11	INDUCTOR 100uH			

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q501	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q503	8-729-900-63	TRANSISTOR DTA124ES			
		< RESISTOR >			
R501	1-249-417-11	CARBON	1K	5%	1/4W
R502	1-249-417-11	CARBON	1K	5%	1/4W
R503	1-247-807-31	CARBON	100	5%	1/4W
R504	1-247-807-31	CARBON	100	5%	1/4W
R505	1-247-807-31	CARBON	100	5%	1/4W
R506	1-249-417-11	CARBON	1K	5%	1/4W
R507	1-249-417-11	CARBON	1K	5%	1/4W
R508	1-249-417-11	CARBON	1K	5%	1/4W
R509	1-249-417-11	CARBON	1K	5%	1/4W
R510	1-249-417-11	CARBON	1K	5%	1/4W
R511	1-249-417-11	CARBON	1K	5%	1/4W
R512	1-249-413-11	CARBON	470	5%	1/4W
R513	1-249-413-11	CARBON	470	5%	1/4W
R514	1-249-413-11	CARBON	470	5%	1/4W
R515	1-249-417-11	CARBON	1K	5%	1/4W
R516	1-249-417-11	CARBON	1K	5%	1/4W
R517	1-249-417-11	CARBON	1K	5%	1/4W
R518	1-249-417-11	CARBON	1K	5%	1/4W
R519	1-249-417-11	CARBON	1K	5%	1/4W
R520	1-249-429-11	CARBON	10K	5%	1/4W
R521	1-249-429-11	CARBON	10K	5%	1/4W
R522	1-247-843-11	CARBON	3.3K	5%	1/4W
R523	1-249-413-11	CARBON	470	5%	1/4W
R524	1-249-415-11	CARBON	680	5%	1/4W
R525	1-249-417-11	CARBON	1K	5%	1/4W
R526	1-247-843-11	CARBON	3.3K	5%	1/4W
R527	1-249-413-11	CARBON	470	5%	1/4W
R528	1-249-415-11	CARBON	680	5%	1/4W
R529	1-249-417-11	CARBON	1K	5%	1/4W
R530	1-249-417-11	CARBON	1K	5%	1/4W
R531	1-249-437-11	CARBON	47K	5%	1/4W
R534	1-247-815-91	CARBON	220	5%	1/4W
R535	1-249-407-11	CARBON	150	5%	1/4W
R536	1-247-815-91	CARBON	220	5%	1/4W
R537	1-249-437-11	CARBON	47K	5%	1/4W
R538	1-249-437-11	CARBON	47K	5%	1/4W
R539	1-249-437-11	CARBON	47K	5%	1/4W

DISPLAY **MAIN**

Consisting the following section in the main.
(INPUT)

Ref. No.	Part No.	Description			Remark
R540	1-249-437-11	CARBON	47K	5%	1/4W
R541	1-249-437-11	CARBON	47K	5%	1/4W
R542	1-249-437-11	CARBON	47K	5%	1/4W
R543	1-249-437-11	CARBON	47K	5%	1/4W
R544	1-249-437-11	CARBON	47K	5%	1/4W
R545	1-249-437-11	CARBON	47K	5%	1/4W
R546	1-249-437-11	CARBON	47K	5%	1/4W
R547	1-249-437-11	CARBON	47K	5%	1/4W
R548	1-249-437-11	CARBON	47K	5%	1/4W
R549	1-249-437-11	CARBON	47K	5%	1/4W
R550	1-249-437-11	CARBON	47K	5%	1/4W
R551	1-249-437-11	CARBON	47K	5%	1/4W
R552	1-249-437-11	CARBON	47K	5%	1/4W
R553	1-249-437-11	CARBON	47K	5%	1/4W
R554	1-249-437-11	CARBON	47K	5%	1/4W
R555	1-249-417-11	CARBON	1K	5%	1/4W
R556	1-249-429-11	CARBON	10K	5%	1/4W
R557	1-249-428-11	CARBON	8.2K	5%	1/4W
R558	1-249-437-11	CARBON	47K	5%	1/4W
R559	1-249-437-11	CARBON	47K	5%	1/4W
R560	1-247-807-31	CARBON	100	5%	1/4W
R565	1-249-425-11	CARBON	4.7K	5%	1/4W
R566	1-249-417-11	CARBON	1K	5%	1/4W
		< SWITCH >			
S501	1-554-303-21	SWITCH, TACTILE (INPUT)			
S502	1-554-303-21	SWITCH, TACTILE (S.WOOFER)			
S503	1-554-303-21	SWITCH, TACTILE (SURROUND)			
S504	1-554-303-21	SWITCH, TACTILE (CENTER MODE)			
S505	1-554-303-21	SWITCH, TACTILE (MASTER VOL +)			
S506	1-554-303-21	SWITCH, TACTILE (MASTER VOL –)			
		< VIBRATOR >			
X501	1-579-233-11	VIBRATOR, CERAMIC (5MHZ)			
**********					
*	A-4390-779-A	MAIN BOARD, COMPLETE			
		**********			
		(Including INPUT BOARD)			
		< CAPACITOR >			
C101	1-104-664-11	ELECT	47uF	20%	25V
C102	1-104-664-11	ELECT	47uF	20%	25V
C104	1-126-964-11	ELECT	10uF	20%	50V
C105	1-124-902-00	ELECT	0.47uF	20%	50V
C106	1-130-487-00	MYLAR	0.022uF	5%	50V
C107	1-130-491-00	MYLAR	0.047uF	5%	50V
C108	1-126-923-11	ELECT	220uF	20%	10V
C109	1-126-964-11	ELECT	10uF	20%	50V
C110	1-126-964-11	ELECT	10uF	20%	50V
C111	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
C112	1-126-964-11	ELECT	10uF	20%	50V
C113	1-126-923-11	ELECT	220uF	20%	10V
C114	1-126-962-11	ELECT	3.3uF	20%	50V
C115	1-126-962-11	ELECT	3.3uF	20%	50V
C116	1-164-159-21	CERAMIC	0.1uF		50V
C117	1-164-159-21	CERAMIC	0.1uF		50V
C118	1-124-902-00	ELECT	0.47uF	20%	50V
C119	1-126-963-11	ELECT	4.7uF	20%	50V
C120	1-124-902-00	ELECT	0.47uF	20%	50V
C121	1-126-963-11	ELECT	4.7uF	20%	50V
C122	1-136-167-00	FILM	0.15uF	5%	50V
C123	1-126-962-11	ELECT	3.3uF	20%	50V
C124	1-136-167-00	FILM	0.15uF	5%	50V
C125	1-136-167-00	FILM	0.15uF	5%	50V
C126	1-126-962-11	ELECT	3.3uF	20%	50V
C127	1-136-167-00	FILM	0.15uF	5%	50V
C128	1-126-963-11	ELECT	4.7uF	20%	50V
C129	1-124-902-00	ELECT	0.47uF	20%	50V
C130	1-126-963-11	ELECT	4.7uF	20%	50V
C131	1-124-902-00	ELECT	0.47uF	20%	50V
C132	1-164-159-21	CERAMIC	0.1uF		50V
C133	1-164-159-21	CERAMIC	0.1uF		50V
C134	1-104-664-11	ELECT	47uF	20%	25V
C135	1-124-902-00	ELECT	0.47uF	20%	50V
C136	1-126-964-11	ELECT	10uF	20%	50V
C137	1-126-964-11	ELECT	10uF	20%	50V
C138	1-162-292-31	CERAMIC	680PF	10%	50V
C139	1-164-159-21	CERAMIC	0.1uF		50V
C140	1-164-159-21	CERAMIC	0.1uF		50V
C142	1-124-925-11	ELECT	2.2uF	20%	100V
C143	1-126-923-11	ELECT	220uF	20%	10V
C144	1-126-964-11	ELECT	10uF	20%	50V
C145	1-126-964-11	ELECT	10uF	20%	50V
C146	1-162-306-11	CERAMIC	0.01uF	20%	16V
C147	1-124-903-11	ELECT	1uF	20%	50V
C148	1-130-489-00	MYLAR	0.033uF	5%	50V
C149	1-164-087-11	CERAMIC	0.0015uF	10%	50V
C150	1-130-489-00	MYLAR	0.033uF	5%	50V
C151	1-126-923-11	ELECT	220uF	20%	10V
C201	1-126-964-11	ELECT	10uF	20%	50V
C202	1-104-664-11	ELECT	47uF	20%	25V
C203	1-126-933-11	ELECT	100uF	20%	10V
C204	1-164-159-21	CERAMIC	0.1uF		50V
C205	1-128-551-11	ELECT	22uF	20%	25V
C206	1-130-477-00	MYLAR	0.0033uF	5%	50V
C207	1-130-477-00	MYLAR	0.0033uF	5%	50V
C208	1-126-963-11	ELECT	4.7uF	20%	50V
C209	1-126-963-11	ELECT	4.7uF	20%	50V
C210	1-136-165-00	FILM	0.1uF	5%	50V
C211	1-136-165-00	FILM	0.1uF	5%	50V
C212	1-136-165-00	FILM	0.1uF	5%	50V
C213	1-136-165-00	FILM	0.1uF	5%	50V

Ref. No.	Part No.	Description			Remark
C251	1-126-964-11	ELECT	10uF	20%	50V
C252	1-104-664-11	ELECT	47uF	20%	25V
C255	1-128-551-11	ELECT	22uF	20%	25V
C259	1-126-963-11	ELECT	4.7uF	20%	50V
C301	1-136-162-00	FILM	0.056uF	5%	50V
C302	1-136-162-00	FILM	0.056uF	5%	50V
C303	1-126-964-11	ELECT	10uF	20%	50V
C304	1-124-925-11	ELECT	2.2uF	20%	100V
C305	1-126-963-11	ELECT	4.7uF	20%	50V
C306	1-124-925-11	ELECT	2.2uF	20%	100V
C307	1-130-479-00	MYLAR	0.0047uF	5%	50V
C308	1-130-479-00	MYLAR	0.0047uF	5%	50V
C309	1-136-165-00	FILM	0.1uF	5%	50V
C310	1-126-964-11	ELECT	10uF	20%	50V
C311	1-124-925-11	ELECT	2.2uF	20%	100V
C312	1-126-964-11	ELECT	10uF	20%	50V
C313	1-124-925-11	ELECT	2.2uF	20%	100V
C314	1-126-963-11	ELECT	4.7uF	20%	50V
C315	1-124-903-11	ELECT	1uF	20%	50V
C316	1-124-925-11	ELECT	2.2uF	20%	100V
C317	1-126-963-11	ELECT	4.7uF	20%	50V
C318	1-124-903-11	ELECT	1uF	20%	50V
C350	1-136-165-00	FILM	0.1uF	5%	50V
C351	1-136-162-00	FILM	0.056uF	5%	50V
C352	1-136-162-00	FILM	0.056uF	5%	50V
C353	1-126-964-11	ELECT	10uF	20%	50V
C354	1-124-925-11	ELECT	2.2uF	20%	100V
C355	1-126-963-11	ELECT	4.7uF	20%	50V
C359	1-124-903-11	ELECT	1uF	20%	50V
C401	1-124-902-00	ELECT	0.47uF	20%	50V
C402	1-124-902-00	ELECT	0.47uF	20%	50V
C403	1-124-902-00	ELECT	0.47uF	20%	50V
C404	1-126-964-11	ELECT	10uF	20%	50V
C405	1-136-153-00	FILM	0.01uF	5%	50V
C406	1-126-964-11	ELECT	10uF	20%	50V
C407	1-126-933-11	ELECT	100uF	20%	10V
C408	1-124-464-11	ELECT	0.22uF	20%	50V
C409	1-124-464-11	ELECT	0.22uF	20%	50V
C410	1-124-902-00	ELECT	0.47uF	20%	50V
C411	1-136-165-00	FILM	0.1uF	5%	50V
C412	1-124-464-11	ELECT	0.22uF	20%	50V
C413	1-124-464-11	ELECT	0.22uF	20%	50V
C414	1-126-964-11	ELECT	10uF	20%	50V
C415	1-126-964-11	ELECT	10uF	20%	50V
C416	1-126-963-11	ELECT	4.7uF	20%	50V
C417	1-124-903-11	ELECT	1uF	20%	50V
C418	1-126-933-11	ELECT	100uF	20%	10V
		< CONNECTOR >			
* CN102	1-568-842-11	SOCKET, CONNECTOR 27P			
CN104	1-778-241-11	CONNECTOR, BOARD TO BOARD 5P			
CN105	1-770-728-11	CONNECTOR, BOARD TO BOARD 9P			

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D101	8-719-987-63	DIODE 1N4148M	
D102	8-719-987-63	DIODE 1N4148M	
D201	8-719-987-63	DIODE 1N4148M	
D301	8-719-987-63	DIODE 1N4148M	
D401	8-719-987-63	DIODE 1N4148M	
D402	8-719-987-63	DIODE 1N4148M	
		< IC >	
IC101	8-759-000-48	IC MC14052BCP	
IC102	8-759-634-51	IC M5218AP	
IC103	8-759-248-74	IC LA2785	
IC104	8-759-341-23	IC LV1011	
IC201	8-759-634-51	IC M5218AP	
IC202	8-759-000-48	IC MC14052BCP	
IC203	8-759-264-31	IC TDA7315	
IC204	8-759-264-31	IC TDA7315	
IC301	8-759-634-51	IC M5218AP	
IC302	8-759-634-51	IC M5218AP	
IC401	8-759-634-51	IC M5218AP	
IC402	8-759-634-51	IC M5218AP	
IC403	8-759-051-65	IC TC9214P	
IC404	8-759-634-51	IC M5218AP	
IC405	8-759-634-51	IC M5218AP	
		< JACK >	
J101	1-580-825-11	JACK, PIN 6P (1 IN ,TO TV,2 IN)	
		< COIL >	
L102	1-410-509-11	INDUCTOR 10uH	
L103	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q102	8-729-900-36	TRANSISTOR DTC124ES	
Q201	8-729-900-63	TRANSISTOR DTA124ES	
Q202	8-729-900-63	TRANSISTOR DTA124ES	
Q203	8-729-900-63	TRANSISTOR DTA124ES	
Q204	8-729-900-63	TRANSISTOR DTA124ES	
Q205	8-729-900-63	TRANSISTOR DTA124ES	
Q206	8-729-900-36	TRANSISTOR DTC124ES	
Q301	8-729-900-36	TRANSISTOR DTC124ES	
Q302	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q303	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q304	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q305	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q351	8-729-900-36	TRANSISTOR DTC124ES	
Q352	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q401	8-729-900-36	TRANSISTOR DTC124ES	
Q402	8-729-141-30	TRANSISTOR 2SC3623A-LK	

MAIN

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R101	1-249-417-11	CARBON	1K	5%	1/4W
R103	1-249-417-11	CARBON	1K	5%	1/4W
R105	1-249-441-11	CARBON	100K	5%	1/4W
R106	1-249-441-11	CARBON	100K	5%	1/4W
R109	1-249-441-11	CARBON	100K	5%	1/4W
R110	1-249-413-11	CARBON	470	5%	1/4W
R111	1-249-441-11	CARBON	100K	5%	1/4W
R112	1-249-441-11	CARBON	100K	5%	1/4W
R113	1-249-417-11	CARBON	1K	5%	1/4W
R114	1-249-417-11	CARBON	1K	5%	1/4W
R115	1-249-417-11	CARBON	1K	5%	1/4W
R116	1-249-435-11	CARBON	33K	5%	1/4W
R117	1-249-431-11	CARBON	15K	5%	1/4W
R118	1-249-411-11	CARBON	330	5%	1/4W
R119	1-247-903-00	CARBON	1M	5%	1/4W
R123	1-249-437-11	CARBON	47K	5%	1/4W
R124	1-249-417-11	CARBON	1K	5%	1/4W
R125	1-249-417-11	CARBON	1K	5%	1/4W
R126	1-247-807-31	CARBON	100	5%	1/4W
R127	1-247-807-31	CARBON	100	5%	1/4W
R128	1-247-807-31	CARBON	100	5%	1/4W
R151	1-249-417-11	CARBON	1K	5%	1/4W
R153	1-249-417-11	CARBON	1K	5%	1/4W
R155	1-249-441-11	CARBON	100K	5%	1/4W
R156	1-249-441-11	CARBON	100K	5%	1/4W
R201	1-249-437-11	CARBON	47K	5%	1/4W
R202	1-249-437-11	CARBON	47K	5%	1/4W
R203	1-249-437-11	CARBON	47K	5%	1/4W
R204	1-249-417-11	CARBON	1K	5%	1/4W
R205	1-249-417-11	CARBON	1K	5%	1/4W
R206	1-249-437-11	CARBON	47K	5%	1/4W
R208	1-249-426-11	CARBON	5.6K	5%	1/4W
R209	1-249-426-11	CARBON	5.6K	5%	1/4W
R210	1-249-437-11	CARBON	47K	5%	1/4W
R211	1-249-437-11	CARBON	47K	5%	1/4W
R212	1-249-437-11	CARBON	47K	5%	1/4W
R213	1-249-437-11	CARBON	47K	5%	1/4W
R214	1-249-437-11	CARBON	47K	5%	1/4W
R215	1-247-863-91	CARBON	22K	5%	1/4W
R216	1-247-863-91	CARBON	22K	5%	1/4W
R217	1-247-863-91	CARBON	22K	5%	1/4W
R251	1-249-437-11	CARBON	47K	5%	1/4W
R252	1-249-437-11	CARBON	47K	5%	1/4W
R253	1-249-437-11	CARBON	47K	5%	1/4W
R254	1-249-417-11	CARBON	1K	5%	1/4W
R255	1-249-417-11	CARBON	1K	5%	1/4W
R301	1-247-863-91	CARBON	22K	5%	1/4W
R302	1-247-863-91	CARBON	22K	5%	1/4W
R303	1-249-437-11	CARBON	47K	5%	1/4W
R304	1-249-417-11	CARBON	1K	5%	1/4W
R305	1-247-899-11	CARBON	680K	5%	1/4W
R306	1-249-417-11	CARBON	1K	5%	1/4W
R307	1-249-441-11	CARBON	100K	5%	1/4W
R308	1-249-429-11	CARBON	10K	5%	1/4W
R309	1-247-807-31	CARBON	100	5%	1/4W
R310	1-249-425-11	CARBON	4.7K	5%	1/4W
R311	1-249-429-11	CARBON	10K	5%	1/4W
R312	1-249-426-11	CARBON	5.6K	5%	1/4W
R313	1-247-876-11	CARBON	75K	5%	1/4W
R314	1-249-436-11	CARBON	39K	5%	1/4W
R315	1-249-441-11	CARBON	100K	5%	1/4W
R316	1-249-417-11	CARBON	1K	5%	1/4W
R317	1-249-429-11	CARBON	10K	5%	1/4W
R318	1-249-441-11	CARBON	100K	5%	1/4W
R319	1-249-417-11	CARBON	1K	5%	1/4W
R320	1-249-429-11	CARBON	10K	5%	1/4W
R321	1-247-807-31	CARBON	100	5%	1/4W
R322	1-249-425-11	CARBON	4.7K	5%	1/4W
R323	1-249-417-11	CARBON	1K	5%	1/4W
R324	1-249-429-11	CARBON	10K	5%	1/4W
R325	1-247-807-31	CARBON	100	5%	1/4W
R327	1-249-417-11	CARBON	1K	5%	1/4W
R328	1-249-417-11	CARBON	1K	5%	1/4W
R351	1-247-863-91	CARBON	22K	5%	1/4W
R352	1-247-863-91	CARBON	22K	5%	1/4W
R353	1-249-437-11	CARBON	47K	5%	1/4W
R354	1-249-417-11	CARBON	1K	5%	1/4W
R355	1-247-899-11	CARBON	680K	5%	1/4W
R356	1-249-417-11	CARBON	1K	5%	1/4W
R357	1-249-441-11	CARBON	100K	5%	1/4W
R358	1-249-429-11	CARBON	10K	5%	1/4W
R359	1-247-807-31	CARBON	100	5%	1/4W
R401	1-249-441-11	CARBON	100K	5%	1/4W
R402	1-249-425-11	CARBON	4.7K	5%	1/4W
R403	1-249-435-11	CARBON	33K	5%	1/4W
R404	1-249-411-11	CARBON	330	5%	1/4W
R405	1-249-441-11	CARBON	100K	5%	1/4W
R406	1-249-425-11	CARBON	4.7K	5%	1/4W
R407	1-249-435-11	CARBON	33K	5%	1/4W
R408	1-249-411-11	CARBON	330	5%	1/4W
R409	1-249-441-11	CARBON	100K	5%	1/4W
R410	1-249-425-11	CARBON	4.7K	5%	1/4W
R411	1-249-435-11	CARBON	33K	5%	1/4W
R412	1-249-411-11	CARBON	330	5%	1/4W
R413	1-249-428-11	CARBON	8.2K	5%	1/4W
R414	1-249-429-11	CARBON	10K	5%	1/4W
R415	1-249-429-11	CARBON	10K	5%	1/4W
R416	1-249-441-11	CARBON	100K	5%	1/4W
R418	1-249-413-11	CARBON	470	5%	1/4W
R419	1-249-413-11	CARBON	470	5%	1/4W
R420	1-249-417-11	CARBON	1K	5%	1/4W
R421	1-249-417-11	CARBON	1K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R422	1-249-417-11	CARBON	1K	5%	1/4W
R423	1-249-421-11	CARBON	2.2K	5%	1/4W
R424	1-249-413-11	CARBON	470	5%	1/4W
R429	1-247-887-00	CARBON	220K	5%	1/4W
R431	1-249-425-11	CARBON	4.7K	5%	1/4W
R432	1-247-895-91	CARBON	470K	5%	1/4W
R433	1-249-420-11	CARBON	1.8K	5%	1/4W
R434	1-249-441-11	CARBON	100K	5%	1/4W
R435	1-249-429-11	CARBON	10K	5%	1/4W
R436	1-247-843-11	CARBON	3.3K	5%	1/4W
R437	1-249-429-11	CARBON	10K	5%	1/4W
R438	1-249-429-11	CARBON	10K	5%	1/4W
R439	1-249-437-11	CARBON	47K	5%	1/4W
R440	1-249-441-11	CARBON	100K	5%	1/4W
R441	1-249-417-11	CARBON	1K	5%	1/4W
R442	1-249-429-11	CARBON	10K	5%	1/4W
R443	1-247-807-31	CARBON	100	5%	1/4W
		< SWITCH >			
S101	1-762-708-11	SWITCH, PUSH (1 KEY)(CENTER SPEAKER)			
		< TERMINAL >			
TM601	1-537-923-11	TERMINAL BOARD (SPERKER)(6P) (EXTERNAL SPEAKERS)			
		< VIBRATOR >			
X101	1-579-125-11	VIBRATOR, CERAMIC (8MHz)			
**********					
*	A-4390-782-A	P.S. BOARD, COMPLETE (US,CND,UK,G,E1,AUS) **********			
*	A-4390-787-A	P.S. BOARD, COMPLETE (AEP,E2) **********			
	1-537-738-21	TERMINAL BOARD, GROUND			
		< CAPACITOR >			
C701	1-126-933-11	ELECT	100uF	20%	10V
C702	1-126-963-11	ELECT	4.7uF	20%	50V
C703	1-126-967-11	ELECT	47uF	20%	10V
C901	1-164-159-21	CERAMIC	0.1uF		50V
C902	1-164-159-21	CERAMIC	0.1uF		50V
C903	1-126-955-11	ELECT	4700uF	20%	35V
C904	1-126-955-11	ELECT	4700uF	20%	35V
C907	1-126-952-11	ELECT	1000uF	20%	35V
C908	1-126-950-11	ELECT	330uF	20%	35V
C909	1-126-967-11	ELECT	47uF	20%	10V
C910	1-126-967-11	ELECT	47uF	20%	10V
C911	1-126-950-11	ELECT	330uF	20%	35V
C913	1-126-964-11	ELECT	10uF	20%	50V
C917	1-126-967-11	ELECT	47uF	20%	50V
C918	1-126-964-11	ELECT	10uF	20%	50V
C919	1-126-967-11	ELECT	47uF	20%	10V
C920	1-126-968-11	ELECT	100uF	20%	50V
		< CONNECTOR >			
CN154	1-778-240-11	CONNECTOR, BOARD TO BOARD 5P			
CN155	1-770-724-11	CONNECTOR, BOARD TO BOARD 9P			
* CN601	1-565-291-11	SOCKET, CONNECTOR 13P			
* CN602	1-564-507-11	PLUG, CONNECTOR 4P			
		< DIODE >			
D701	8-719-987-63	DIODE 1N4148M			
D702	8-719-987-63	DIODE 1N4148M			
D901	8-719-510-68	DIODE D5SBA20F01 (US,CND,UK,G,E1,AUS)			
D901	8-719-500-60	DIODE D5SBA20 (AEP,E2)			
D902	8-719-200-82	DIODE 11ES2			
D903	8-719-200-82	DIODE 11ES2			
D904	8-719-200-82	DIODE 11ES2			
D905	8-719-200-82	DIODE 11ES2			
D906	8-719-200-82	DIODE 11ES2			
D909	8-719-200-82	DIODE 11ES2			
D910	8-719-987-63	DIODE 1N4148M			
D911	8-719-002-43	DIODE UZL-27L-TA			
D912	8-719-014-66	DIODE UZP-5.6B			
D913	8-719-200-82	DIODE 11ES2			
		< IC >			
IC701	8-759-111-68	IC uPC1237HA			
IC901	8-759-701-59	IC NJM78M09FA			
IC902	8-759-604-43	IC M5F79M09L			
IC903	8-759-158-62	IC TA78057S			
		< TRANSISTOR >			
Q902	8-729-030-19	TRANSISTOR 2SB1640			
Q903	8-729-119-76	TRANSISTOR 2SA1175-HFE			
		< RESISTOR >			
R701	1-249-441-11	CARBON	100K	5%	1/4W
R702	1-249-441-11	CARBON	100K	5%	1/4W
R703	1-249-441-11	CARBON	100K	5%	1/4W
R704	1-249-441-11	CARBON	100K	5%	1/4W
R705	1-249-441-11	CARBON	100K	5%	1/4W
⚠R706	1-249-411-11	CARBON	330	5%	1/4W
⚠R707	1-249-411-11	CARBON	330	5%	1/4W
⚠R708	1-249-411-11	CARBON	330	5%	1/4W
R711	1-249-441-11	CARBON	100K	5%	1/4W
R712	1-249-435-11	CARBON	33K	5%	1/4W
R713	1-249-427-11	CARBON	6.8K	5%	1/4W
R906	1-247-843-11	CARBON	3.3K	5%	1/4W
R907	1-249-437-11	CARBON	47K	5%	1/4W
R908	1-247-807-31	CARBON	100	5%	1/4W
R909	1-247-807-31	CARBON	100	5%	1/4W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

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Ne les remplacer que par une piéce portant le numéro spécifié.

P.S. POWER R-SP

Consisting the following section in the power.
(POW-R, POW-L, POW-CN, POW-SW, POW-SR)

Ref. No.	Part No.	Description			Remark
R910	1-249-431-11	CARBON	15K	5%	1/4W
⚠R912	1-249-405-11	CARBON	100	5%	1/4W
R913	1-249-429-11	CARBON	10K	5%	1/4W
⚠R919	1-249-389-11	CARBON	4.7	5%	1/4W
⚠R920	1-212-865-00	FUSIBLE	22	5%	1/4W F
⚠R921	1-249-405-11	CARBON	100	5%	1/4W
		< RELAY >			
RY701	1-755-142-11	RELAY			
RY702	1-755-142-11	RELAY			
RY703	1-755-142-11	RELAY			
RY901	1-515-840-11	RELAY			

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*	A-4390-783-A	POWER BOARD, COMPLETE			
		**********			
		(Including POW-R, POW-L, POW-CN, POW-SW, POW-SR)			
	1-533-293-11	FUSE HOLDER			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
C601	1-162-294-31	CERAMIC	0.001uF	10%	50V
C602	1-162-282-31	CERAMIC	100PF	10%	50V
C603	1-104-664-11	ELECT	47uF	20%	25V
C604	1-162-191-31	CERAMIC	2.2PF	10%	50V
C605	1-162-294-31	CERAMIC	0.001uF	10%	50V
C606	1-162-282-31	CERAMIC	100PF	10%	50V
C607	1-104-664-11	ELECT	47uF	20%	25V
C608	1-162-191-31	CERAMIC	2.2PF	10%	50V
C609	1-162-294-31	CERAMIC	0.001uF	10%	50V
C610	1-162-282-31	CERAMIC	100PF	10%	50V
C611	1-104-664-11	ELECT	47uF	20%	25V
C612	1-162-191-31	CERAMIC	2.2PF	10%	50V
C613	1-162-294-31	CERAMIC	0.001uF	10%	50V
C614	1-162-282-31	CERAMIC	100PF	10%	50V
C615	1-104-664-11	ELECT	47uF	20%	25V
C616	1-162-191-31	CERAMIC	2.2PF	10%	50V
C617	1-162-294-31	CERAMIC	0.001uF	10%	50V
C618	1-162-282-31	CERAMIC	100PF	10%	50V
C619	1-104-664-11	ELECT	47uF	20%	25V
C620	1-162-191-31	CERAMIC	2.2PF	10%	50V
C621	1-126-964-11	ELECT	10uF	20%	50V
C622	1-126-964-11	ELECT	10uF	20%	50V
C623	1-126-964-11	ELECT	10uF	20%	50V
C624	1-126-964-11	ELECT	10uF	20%	50V
C625	1-130-487-00	MYLAR	0.022uF	5%	50V
C626	1-130-487-00	MYLAR	0.022uF	5%	50V
C627	1-130-487-00	MYLAR	0.022uF	5%	50V
C628	1-130-487-00	MYLAR	0.022uF	5%	50V
C629	1-130-487-00	MYLAR	0.022uF	5%	50V

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
* CN153	1-564-522-11	PLUG, CONNECTOR 7P			
CN605	1-564-523-11	PLUG, CONNECTOR 8P			
		< FUSE >			
⚠F901	1-532-500-51	FUSE, CYLINDRICAL (TIME-LAG)(0.63A 250V) (AEP,UK,G,E2,AUS)			
⚠F901	1-533-296-11	FUSE, GLASS CYLINDRICAL(DIA.5)(2A 125V) (US,CND,E1)			
		< IC >			
IC601	8-759-502-31	IC SI-18751			
IC602	8-759-502-31	IC SI-18751			
IC603	8-759-502-31	IC SI-18751			
IC604	8-759-502-31	IC SI-18751			
IC605	8-759-502-31	IC SI-18751			
		< RESISTOR >			
R601	1-249-431-11	CARBON	15K	5%	1/4W
R602	1-249-414-11	CARBON	560	5%	1/4W
R603	1-249-431-11	CARBON	15K	5%	1/4W
R604	1-249-431-11	CARBON	15K	5%	1/4W
R605	1-249-414-11	CARBON	560	5%	1/4W
R606	1-249-431-11	CARBON	15K	5%	1/4W
R607	1-249-431-11	CARBON	15K	5%	1/4W
R608	1-249-408-11	CARBON	180	5%	1/4W
R609	1-249-431-11	CARBON	15K	5%	1/4W
R610	1-249-431-11	CARBON	15K	5%	1/4W
R611	1-249-407-11	CARBON	150	5%	1/4W
R612	1-249-431-11	CARBON	15K	5%	1/4W
R613	1-249-431-11	CARBON	15K	5%	1/4W
R614	1-249-408-11	CARBON	180	5%	1/4W
R615	1-249-431-11	CARBON	15K	5%	1/4W
R616	1-249-385-11	CARBON	2.2	5%	1/6W
R617	1-249-385-11	CARBON	2.2	5%	1/6W
R618	1-249-385-11	CARBON	2.2	5%	1/6W
R619	1-249-385-11	CARBON	2.2	5%	1/6W
R620	1-249-385-11	CARBON	2.2	5%	1/6W

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*	1-661-297-11	R-SP BOARD			
		**********			
		< CONNECTOR >			
CN651	1-565-291-11	SOCKET, CONNECTOR 13P			
CN653	1-564-507-11	PLUG, CONNECTOR 4P			

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Ref. No.	Part No.	Description	Remark
*	1-661-288-11	SWITCH BOARD **********	
		< CONNECTOR >	
* CN903	1-564-321-21	PIN, CONNECTOR 2P	
		< SWITCH >	
S901	1-554-920-61	SWITCH, PUSH (AC POWER)(1 KEY)(POWER)	
**********			
*	1-661-295-11	T1 BOARD ********	
		< CONNECTOR >	
CN901	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P	
CN902	1-564-321-00	PIN, CONNECTOR 2P	
		< TRANSFORMER >	
⚠T901	1-429-676-11	TRANSFORMER, POWER (US,CND,E1)	
⚠T901	1-429-677-11	TRANSFORMER, POWER (AEP,UK,G,E2)	
**********			
*	1-661-296-11	T2 BOARD ********	
		< CONNECTOR >	
CN904	1-691-768-11	PLUG (MICRO CONNECTOR) 6P	
**********			
		MISCELLANEOUS **********	
110	1-765-348-11	WIRE (FLAT TYPE) (27 CORE)	
155	1-765-663-11	CORD	
⚠CNP901	1-575-042-21	CORD, POWER (US,CND,E1)	
⚠CNP901	1-575-651-21	CORD, POWER (AEP,G,E2)	
⚠CNP901	1-751-529-11	CORD, POWER (UK,AUS)	
⚠F901	1-532-500-51	FUSE, TIME-LAG (0.63A 250V)(G,AEP,UK,E2,AUS)	
⚠F901	1-533-296-11	FUSE, GLASS CYLINDRICAL(DIA.5)(2A 125V) (US,CND,E1)	
FL501	1-517-546-11	INDICATOR TUBE, FLUORESCENT	
SP901	1-504-874-11	SPEAKER (5CM)(Center tweeter)	
SP902	1-504-874-11	SPEAKER (5CM)(Center tweeter)	
SP903	1-504-875-11	SPEAKER (10CM)(Full range)	
SP904	1-504-875-11	SPEAKER (10CM)(Full range)	
SP905	1-505-338-11	SPEAKER (13CM)(S. woofer)	
SP906	1-504-877-11	SPEAKER (8CM)(Rear)	
SP907	1-504-877-11	SPEAKER (8CM)(Rear)	
⚠T901	1-429-676-11	TRANSFORMER, POWER (US,CND,E1)	
⚠T901	1-429-677-11	TRANSFORMER, POWER (G,AEP,UK,E2,AUS)	
**********			

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS **********	
	1-473-713-11	REMOTE COMMANDER (RM-J10)	
	1-558-787-81	CORD, CONNECTION (1.5m)	
	1-751-347-11	CORD, CONNECTION (For Rear Speaker)(10m)	
	1-769-816-11	CORD (WITH CONNECTOR) 13P (3.5m)	
	3-856-457-11	MANUAL, INSTRUCTION (ENGLISH)(US,CND,E1)	
	3-856-457-21	MANUAL, INSTRUCTION (FRENCH)(CND)	
	3-856-457-31	MANUAL, INSTRUCTION (ENGLISH,FRENCH,GERMAN,SPANISH,DUTCH, SWEDISH,PORTUGUESE)(G,AEP,UK,E2,AUS)	
	4-981-643-01	COVER,BATTERY (For RM-J10)	
	4-983-694-01	CUSHION	
**********			
		********** HARDWARE LIST **********	
#1	7-685-659-79	SCREW +BVTP 4X8 TYPE2 IT-3	
#2	7-685-134-19	SCREW +PTPWH 2.6X8 (TYPE2)	
#3	7-682-566-09	SCREW +BVTT 4X20 (S)	
#4	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#5	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#6	7-685-661-79	SCREW +BVTP 4X12 TYPE2	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

9-960-753-11

Sony Corporation
Home A&V Products Company

English
96G0992-1
Printed in Japan
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Published by Quality Engineering Dept. (Shibaura)